SEQUENCE LISTING

<110>	Szalay, Aladar A.													
	Wang, Yubao													
	Wang-Pruski, Gefu													
	Loma Linda University													
	•													
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(131)	1999-03 2.													
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Leu Le	eu Ala Ala Ser Pro Gly Gly Ala Leu Ala Arg Cys Pro Gly Cys													
	20 25 30													
ggg ca	a ggg gtg cag gcg ggt tgt cca ggg ggc tgc gtg gag gag gag 143													
	n Gly Val Gln Ala Gly Cys Pro Gly Gly Cys Val Glu Glu													
3- ₇ 31	35 40 45													
	••													
ast as	gg ggg teg eea gee gag gge tge geg gaa get gag gge tgt ete 191													
	y Gly Ser Pro Ala Glu Gly Cys Ala Glu Ala Glu Gly Cys Leu													
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50 55 60

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	65					70					75					
	_	_	_		•		_	_	_			cct	_			287
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80					85					90					95	
cta	cta	ctc	ggc	cga	ggc	cac	tac	ctt	cca	acc	cac	gcg	cct	act	att	335
-												Ala			_	
			-	100	-	_	_		105		_			110		
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_	-				_		_				-	ggc		_	-	383
Ala	Glu	Glu		Pro	Lys	Glu	Ser		Pro	Gln	Ala	Gly		Ala	Arg	
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		130			5		135					140				
acc	acg	ccc	tcc	cag	ccc	aat	tct	gcg	ggt	gtc	caa	gac	act	gag	atg	479
Thr		Pro	Ser	Gln	Pro	Asn	Ser	Ala	Gly	Val	Gln	Asp	Thr	Glu	Met	
	145					150					155					
		+ ~ .	cat	262	.	ata	~~~	t a s	~+ <i>~</i>	ata	626	caa	ata	C2.7	act	527
		_	-	-		_	_			_	_	Gln		_		J2 /
160		0,72	9	5	165					170					175	
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Glu	Val	Tyr	Arg	Gly	Ala	Gln	Thr	Leu	Tyr	Val	Pro	Asn	Cys	Asp	His	
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											***				000	623
												cag Gln				023
*** 9	O.L.y		195	9	275	9	· · · · · · · · · · · · · · · · · · ·	200	9	501			205	0	5	
cga	ggt	ccc	tgc	tgg	tgt	gtg	gat	cgg	atg	ggc	aag	tcc	ctg	cca	ggg	671
Arg	Gly	Pro	Сув	Trp	Cys	Val	Asp	Arg	Met	Gly	Lys	Ser	Leu	Pro	Gly	
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												9 99				719
ser	225	Asp	GTÅ	WRII	GTÅ	230	ser	ser	cys	PIO	235	Gly	ser	ser	GTÅ	
	ر ند ب					230					200					

taaagctggg ggatagaggg gctgcagggc cactggaagg aacatggagc tgtcatcact 779

caacaaaaa ccgaggccct caatccacct tcaggccccg ccccatgggc ccctcaccgc 839

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<213> Homo sapiens

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Gly Gly Ser Pro Ala Glu Gly Cys Ala Glu Ala Glu Gly Cys Leu Arg
50 55 60

Arg Glu Gly Gln Glu Cys Gly Val Tyr Thr Pro Asn Cys Ala Pro Gly 65 70 75 80

Leu Gln Cys His Pro Pro Lys Asp Asp Glu Ala Pro Leu Arg Ala Leu 85 90 95

Leu Leu Gly Arg Gly Arg Cys Leu Pro Ala Arg Ala Pro Ala Val Ala 100 105 110

Glu Glu Asn Pro Lys Glu Ser Lys Pro Gln Ala Gly Thr Ala Arg Pro 115 120 125

Gln Asp Val Asn Arg Arg Asp Gln Gln Arg Asn Pro Gly Thr Ser Thr 130 135 140

Thr Pro Ser Gln Pro Asn Ser Ala Gly Val Gln Asp Thr Glu Met Gly
145 150 155 160

Pro Cys Arg Arg His Leu Asp Ser Val Leu Gln Gln Leu Gln Thr Glu 165 170 175

Val Tyr Arg Gly Ala Gln Thr Leu Tyr Val Pro Asn Cys Asp His Arg 180 185 190

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105

100

95

	_	_			ttt Phe	-			_			_	_	_	_	387
			_		gag Glu			_	_					_		435
-	_	_	_	_	gat Asp			-			_	_			_	483
	_	-	_		gcg Ala	_				_	_		-			531
_	_				ttc Phe 180			_		_	_					579
_	_	_		_	cca Pro	-	_		_	-			_			627
				_	gtt Val											675
	_				ggt Gly											723
			_		cta Leu	_	-	_	_	_						771
					gga Gly 260											819
_	_				act Thr	-										867
_		_	_	_	cct Pro	_	_	_								915

gtt gag cga gtt ctc aaa aat gaa caa taa ttactttggt tttttattta 965
Val Glu Arg Val Leu Lys Asn Glu Gln
305 310

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Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val 50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp 85 90 95

His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys
100 105 110

Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His 115 120 125

Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu 130 135 140

Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu

6

145 150 155 160

Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu 165 170 175

Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg 180 185 190

Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu 195 200 205

Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro 210 215 220

Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr 225 230 235 240

Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu 245 250 255

Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys 260 265 270

Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln 275 280 285

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Arg Val Leu Lys Asn Glu Gln 305 310

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<213> Homo sapiens

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gcc ttc gcc tcg tgc ttc gct tac cgc ccc agt gag acc ctg 96

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tgc	ggc	ggg	gag	ctg	gtg	gac	acc	ctc	cag	ttc	gtc	tgt	ggg	gac	cgc	144
Cys	Gly	Gly	Glu	Leu	Val	Asp	Thr	Leu	Gln	Phe	Val	Cys	Gly	Asp	Arg	
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ggc	ttc	tac	ttc	agc	agg	ccc	gca	agc	cgt	gtg	agc	cgt	cgc	agc	cgt	192
Gly	Phe	Tyr	Phe	Ser	Arg	Pro	Ala	Ser	Arg	Val	Ser	Arg	Arg	Ser	Arg	
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ggc	atc	gtt	gag	gag	tgc	tgt	ttc	cgc	agc	tgt	gac	ctg	gcc	ctc	ctg	240
Gly	Ile	Val	Glu	Glu	Сув	Сув	Phe	Arg	Ser	Сув	Asp	Leu	Ala	Leu	Leu	
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Glu	Thr	Tyr	Cys	Ala	Thr	Pro	Ala	Lys	Ser	Glu	Arg	Asp	Val	Ser	Thr	
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Pro	Pro	Thr	Val	Leu	Pro	Asp	Asn	Phe	Pro	Arg	Tyr	Pro	Val	Gly	Lys	
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ttc	ttc	caa	tat	gac	acc	tgg	aaq	cag	tcc	acc	cag	cgc	ctg	cgc	agg	384
						Trp										
		115	-	-		_	120					125		_	_	
aac	cta	cct	gcc	ctc	ctg	cgt	gcc	cgc	cgg	ggt	cac	gtg	ctc	gcc	aag	432
	_		-			Arg										
1	130					135			_	•	140				_	
gag	ctc	gag	aca	ttc	agg	gag	gcc	aaa	cgt	cac	cgt	ccc	ctg	att	gct	480
						Glu	_		-		-		_		_	
145					150			- 4	_	155	•				160	
cta	ccc	acc	caa	gac	ccc	gcc	cac	aaa	aac	acc	ccc	cca	gag	atq	qcc	528
						Ala										
				165					170					175		
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agc	aat	cgg	ааσ	toa												543
_		Arg	_	- د												
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Ala Phe Ala Ser Cys Cys Ile Ala Ala Tyr Arg Pro Ser Glu Thr Leu 20 25 30

Cys Gly Glu Leu Val Asp Thr Leu Gln Phe Val Cys Gly Asp Arg
35 40 45

Gly Phe Tyr Phe Ser Arg Pro Ala Ser Arg Val Ser Arg Arg Ser Arg 50 55 60

Gly Ile Val Glu Glu Cys Cys Phe Arg Ser Cys Asp Leu Ala Leu Leu 65 70 75 80

Glu Thr Tyr Cys Ala Thr Pro Ala Lys Ser Glu Arg Asp Val Ser Thr 85 90 95

Pro Pro Thr Val Leu Pro Asp Asn Phe Pro Arg Tyr Pro Val Gly Lys
100 105 110

Phe Phe Gln Tyr Asp Thr Trp Lys Gln Ser Thr Gln Arg Leu Arg Arg 115 120 125

Gly Leu Pro Ala Leu Leu Arg Ala Arg Arg Gly His Val Leu Ala Lys
130 135 140

Glu Leu Glu Ala Phe Arg Glu Ala Lys Arg His Arg Pro Leu Ile Ala 145 150 155 160

Leu Pro Thr Gln Asp Pro Ala His Gly Gly Ala Pro Pro Glu Met Ala 165 170 175

Ser Asn Arg Lys 180

<210> 7

<211> 717

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1)..(717)

<220>

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cag ctg gcc gac cat tat caa cag aac act cca atc ggc gac ggc cct Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro 180 185 190 gtg ctc ctc cca gac aac cat tac ctg tcc acc cag tct gcc ctg tct Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser 195 200 205 aaa gat ccc aac gaa aag aga gac cac atg gtc ctg ctg gag ttt gtg Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val 210 215 acc gct gct ggg atc aca cat ggc atg gac gag ctg tac aag tga Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys 225 230 235 <210> 8

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Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu 20 25

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys 35 40

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe 50 60 55

Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln 65 70 75

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg 85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val 100 105 110

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile 115 120 125

11

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn 130 135 140

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val

Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro 180 185 190

Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser 195 200 205

Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val 210 215 220

Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys 225 230 235

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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(333)

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tgg gga cct gac cca gcc gca gcc ttt gtg aac caa cac ctg tgc ggc 96
Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn Gln His Leu Cys Gly
20 25 30

tca cac ctg gtg gaa gct ctc tac cta gtg tgc ggg gaa cga ggc ttc 144
Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe
35 40 45

ttc tac aca ccc aag acc cgc cgg gag gca gag gac ctg cag gtg ggg 192

Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln Val Gly

50 55 60

cag gtg gag ctg ggc ggg ggc cct ggt gca ggc agc ctg cag ccc ttg 240 Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu 65 70 75 80

gcc ctg gag ggg tcc ctg cag aag cgt ggc att gtg gaa caa tgc tgt 288
Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys
85 90 95

acc age atc tgc tcc ctc tac cag ctg gag aac tac tgc aac tag 333

Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn 100 105 110

<210> 10

<211> 110

<212> PRT

<213> Homo sapiens

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20 25 30

Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe 35 40 45

Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln Val Gly 50 55 60

Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu 65 70 75 80

Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys 85 90 95

Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn 100 105 110